



Please type a plus sign (+) inside this box → ☐

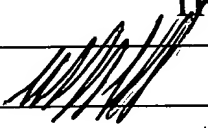
PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/779,789
	Filing Date	02/07/2001
	First Named Inventor	Behrooz REZVANI
	Group Art Unit	2637
	Examiner Name	AHN, SAM K
Total Number of Pages in This Submission	Attorney Docket Number	VELCP008X1C

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers # (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition #	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1- Request for Certificate of Correction of Patent 6,985,521
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2-PTO/SB/44
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input checked="" type="checkbox"/> Return Receipt Postcard	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

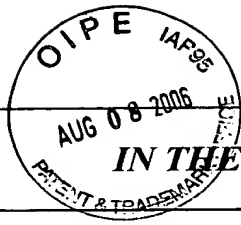
Certificate
AUG 10 2006
of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	IP Creators
Signature	 Charles C. Cary Reg. #: 36,764
Date	August 4, 2006

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 on this date: August 4, 2006	
Typed or printed name	Charles C. Cary
Signature	
Date	August 4, 2006

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

AUG 11 2006



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: REZVANI et al.

Attorney Docket No.: VELCP008X1C

Application No.: 09/779,789

Patent No.: US 6,985,521 B1

Filed: 02/07/2001

Date of Patent: Jan 10, 2006

Title: METHOD AND APPARATUS FOR
CHANNEL ESTIMATION FOR X-DSL
COMMUNICATIONS

Examiner: AHN, SAM K.

Group: 2637

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Attention Certificate of Corrections Branch, Commissioner for Patents, Alexandria, Virginia 22313-1450.

Date: August 4, 2006

Signed: _____

Charles C. Cary

REQUEST FOR CERTIFICATE OF CORRECTION

Attention Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

This communication is a request for Certificate of Correction for the above subject Patent No. 6,985,521. There are errors made by the Office in Claim 2, specifically the Office has substituted the Abstract into Claim 2 rather than the body of amended Claim 8 (renumbered Claim 2) as presented by the Applicant on August 15 2005 in a Petition for Amendment After Final which petition was accepted by the Examiner.

Certificate of Correction is requested to include the corrections in the following and indicated on PTO/SB/44 Form:

Amendment after Final filed on August 15, 2005 and specifically:

Page 3 lines 10-22 and Page 4 lines 1-6 encompassing the body of Amended Claim 8 which reads as follows:

Claim 8 (currently amended) The An apparatus of Claim 1, wherein the detector ~~further comprises:~~ for channel estimation in a communication device having a transmit path and a receive path both coupled to a communication medium, and the apparatus comprising:

a pseudo-random noise generator (PRN) coupled to the transmit path to inject a codeword into the transmit path;

a correlator coupled to the receive path to generate an ordered set of correlation coefficients corresponding with successive phasings of the codeword with respect to a received signal, and the correlator including:

- a detector to detect peaks within the ordered set of correlation coefficients including both a peak corresponding with a leakage signal together with at least one other peak corresponding to a reflection of the injected codeword by the communication medium, and the detector determining at least one of the offset between peaks or a relative magnitude of the peaks, thereby estimating the channel characteristics across the communication medium; and the detector including:
 - a peak detector for detecting peaks within the ordered set of correlation coefficients;
 - a leakage peak detector for determining which among the peaks detected by said peak detector corresponds with the leakage peak; and
 - a sequencer for sequentially ordering the peaks corresponding with a time of receipt of each of the reflected signals with respect to the peak corresponding with the time of receipt of the leakage signal to estimate channel characteristics for the communication medium.

Should there be any fee due in connection with the filing of this request, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-1338 (Order No. VELCP008X1C:!).

Thank you for your assistance in this matter. Do not hesitate to contact the undersigned as indicated below should you have any questions regarding this matter.

Respectfully submitted,

Date: August 4, 2006

Signed: _____


Charles C. Cary

IP Creators
P. O. Box 2789
Cupertino, CA 95015
Tel: 408-850-9585

Registration No. 36,764

AUG 11 2006

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : US 6,985,521

DATED : Jan 10, 2006

INVENTOR(S) : Behrooz Rezvani; Sam Heidari; and Dale Smith

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 14, lines 41-58 should be deleted and the following inserted:

— 2. An apparatus for channel estimation in a communication device having a transmit path and a receive path both coupled to a communication medium, and the apparatus comprising;
a pseudo-random noise generator (PRN) coupled to the transmit path to inject a codeword into the transmit path;

a correlator coupled to the receive path to generate an ordered set of correlation coefficients corresponding with successive phasings of the codeword with respect to a received signal, and the correlator including:

a detector to detect peaks within the ordered set of correlation coefficients including both a peak corresponding with a leakage signal together with at least one other peak corresponding to a reflection of the injected codeword by the communication medium, and the detector determining at least one of the offset between peaks or a relative magnitude of the peaks, thereby estimating the channel characteristics across the communication medium. and the detector including:

a peak detector for detecting peaks within the ordered set of correlation coefficients;

a leakage peak detector for determining which among the peaks detected by said peak detector corresponds with the leakage peak; and

a sequencer for sequentially ordering the peaks corresponding with a time of receipt of each of the reflected signals with respect to the peak corresponding with the time of receipt of the leakage signal to estimate channel characteristics for the communication medium. —

MAILING ADDRESS OF SENDER:

PATENT NO. 6,985,521

IP Creators
P.O. Box 2789
Cupertino, CA 95015

No. of additional copies



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

AUG 11 2006